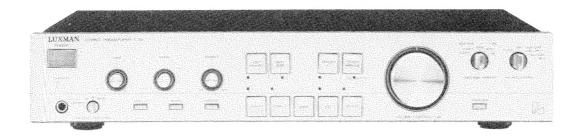


Stereo Preamplifier





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Specifications

Output Voltage
Input Sensitivity (at 1kHz)
Tuner: 150mV±15%
Phono (MM) 47k ohm, Cap-1: 2.5V±15%
Phono (MM) 47k ohm, Cap-2: 2.5V±15%
Phono (MC) 3 ohm: 0.1mV±15%
Phono (MC) 40 ohm : 0.22mV±15% Phono (MC) 100 ohm : 0.22mV±15%
Monitor-1, 2 (Tape/DAT): 150mV±15%
Video-1, 2:150mV±15%
Input Impedance (at 1kHz)
Tuner: 32k ohm±20%
Phono (MM) 47k ohm, Cap-1:47k ohm±20%
Phono (MM) 47k ohm, Cap-2: 47k ohm±20%
Phono (MC) 3 ohm:120 ohm±20%
Phono (MC) 40 ohm: 40 ohm: 20%
Phono (MC) 100 ohm : 100 ohm ±20%
Monitor-1, 2 (Tape∕DAT) : 32k ohm±20% Video-1, 2 : 32k ohm±20%
Total Harmonic Distortion (at 1kHz)
Phono (MM) (Rec-Out: 5V): 0.01%
Video-1 2 (Pro-Out - 2V) - 0.019
Frequency Response
Phono (MM) (Rec-Out 1V) 100Hz: \pm 0.5dB
10kHz: ±0.5dB
Video-1, 2 20~100kHz ±0.5dB
Tape Monitor-1, 2 (DAT/Monitor-1, 2) 20~100kHz: ±1.5dB
Video, Monitor-1, 2 20~100kHz : ±1.5dB Tone Control Bass (100Hz) : ±6±1.5dB
Treble (10kHz): ±6±1.5dB
Loudness (VR-30dB)
10kHz + 4 + 15dB
S/N Ratio (Input Terminal Shorted))
Phono (MM) Cap-1:43.8dB
Phono (MC) 3 ohm : 43.8dB
Phono (MC) 40 ohm: 43.8dB
Phono (MC) 100 ohm : 43.8dB Monitor-1, 2 (DAT-1, 2) : 77.8dB
Residual Noise ··········Volume, minimum : 88.2dB
Cross Talk (Pre-Out 5V=0dB, Input Terminal Shorted at 1kHz)
Tuner: -7OdB
Video-1, 2: -TOdB
Phono (MM): -1OdB
Monitor-1, 2: -7OdB
Power Supply
100/120/220/240V, 50Hz (AD Model only) Semiconductors 6 IC's, 61 Transistors, 8 IETs,
18 Diodes, 11 Zener Diades
Dimensions
Weight
NOTE: Due to continuing product improvement, specifications and design are subject to change without notice.

Parts Locations and Disassembly Instructions

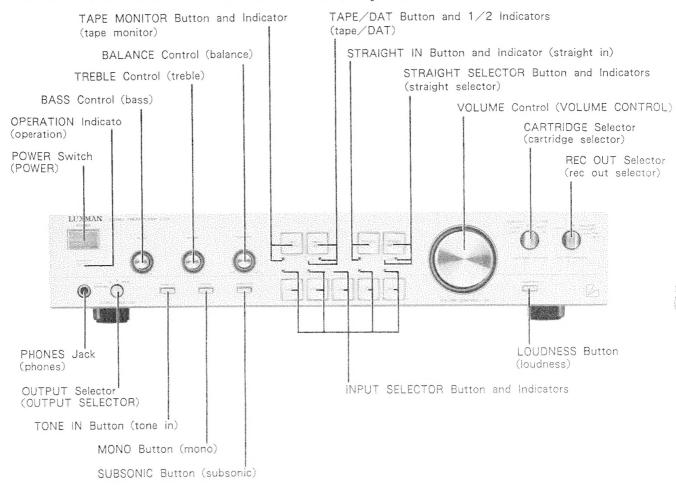


Figure 1

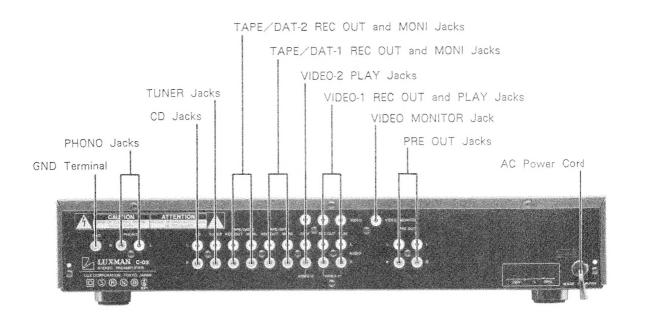
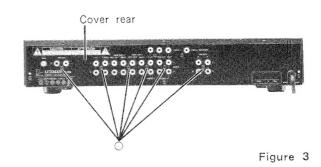


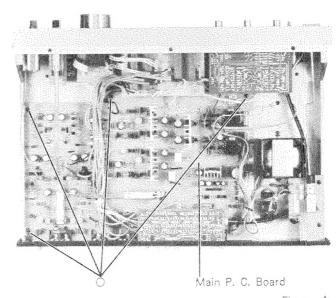
Figure 2

1. Removal of Main P. C. Board

(1) After removal of the top cover and front panel, remove ten screws marked "○" as shown in Figure 3 and 4.



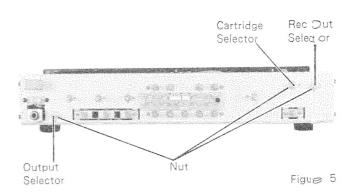
(2) Remove three control knobs, (output selector/cartridge selector/rec out selector) as shown in Figure 5.



(3) Remove three nuts as shown in Figure 5.

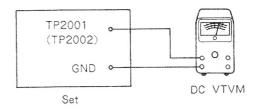


(4) Disconnect all wires from the Main P. C. Board.



Adjustment Procedures

1. Connection

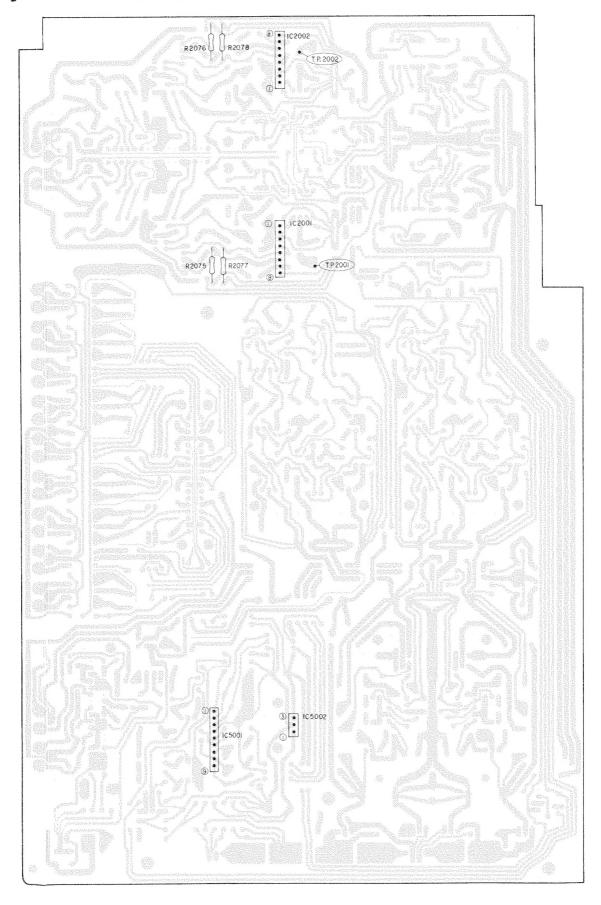


2. Control Settings

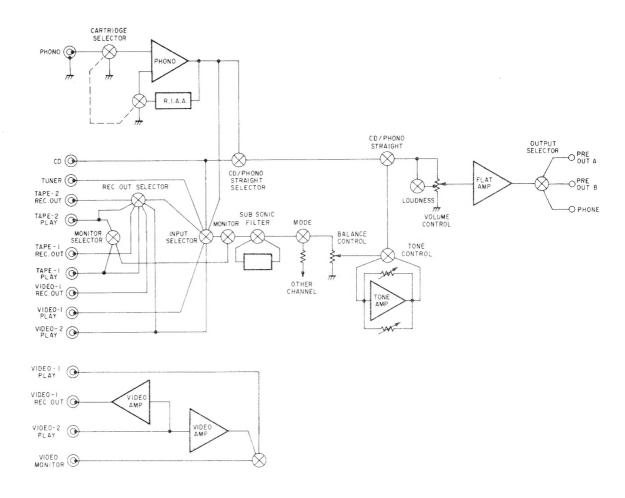
3. Adjustment Procedures

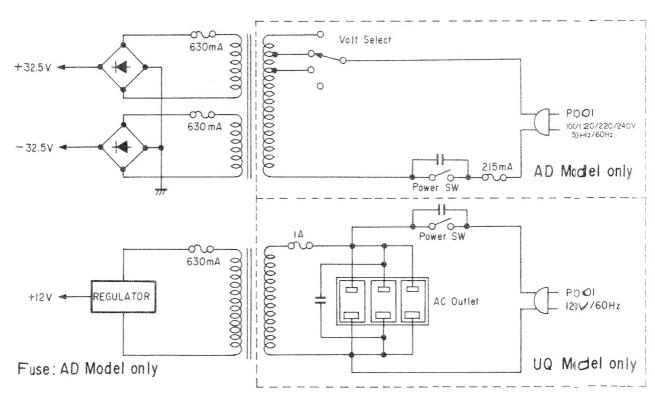
..... Remove R2075 (R2076)

Adjustment Locations

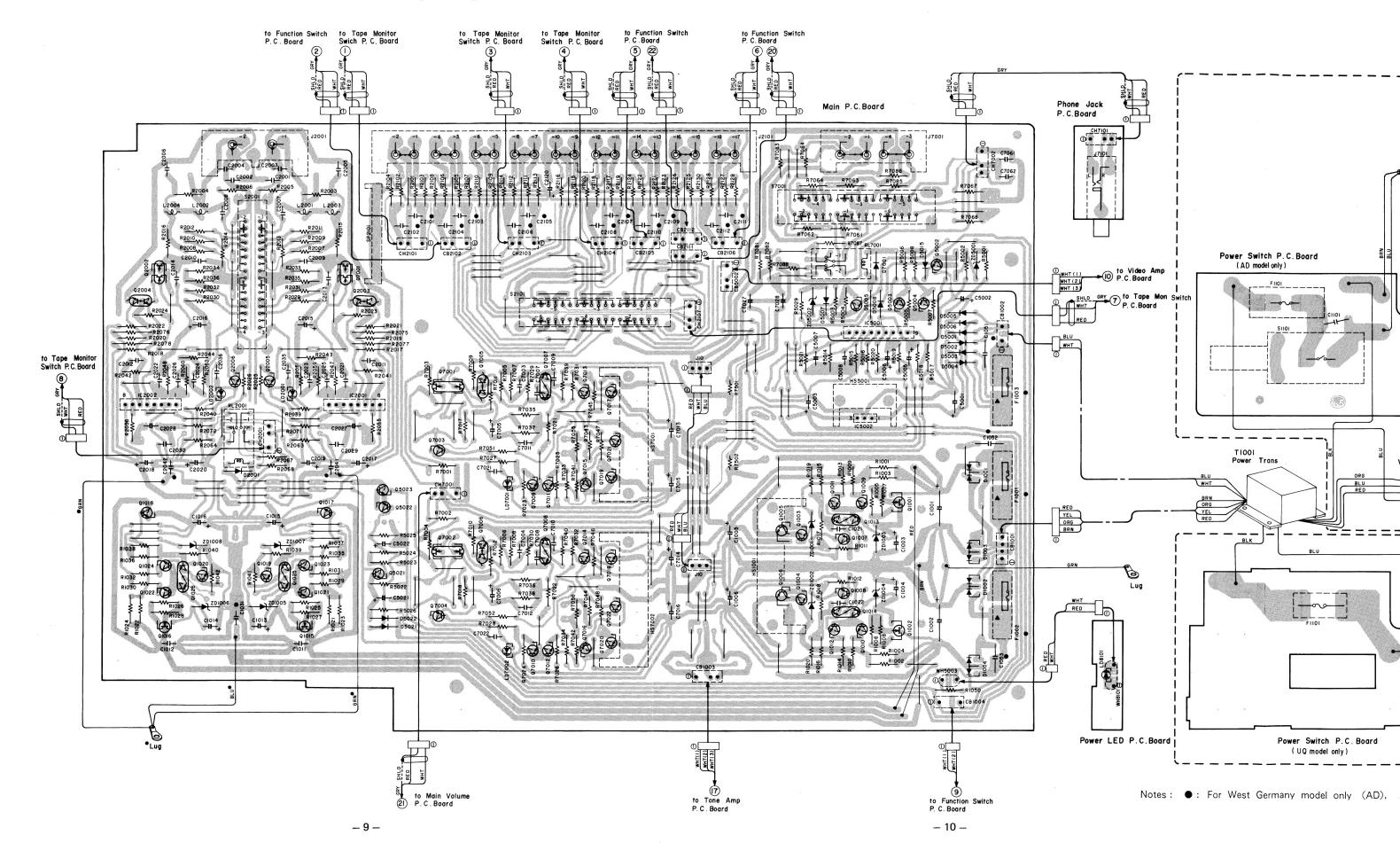


Block Diagram

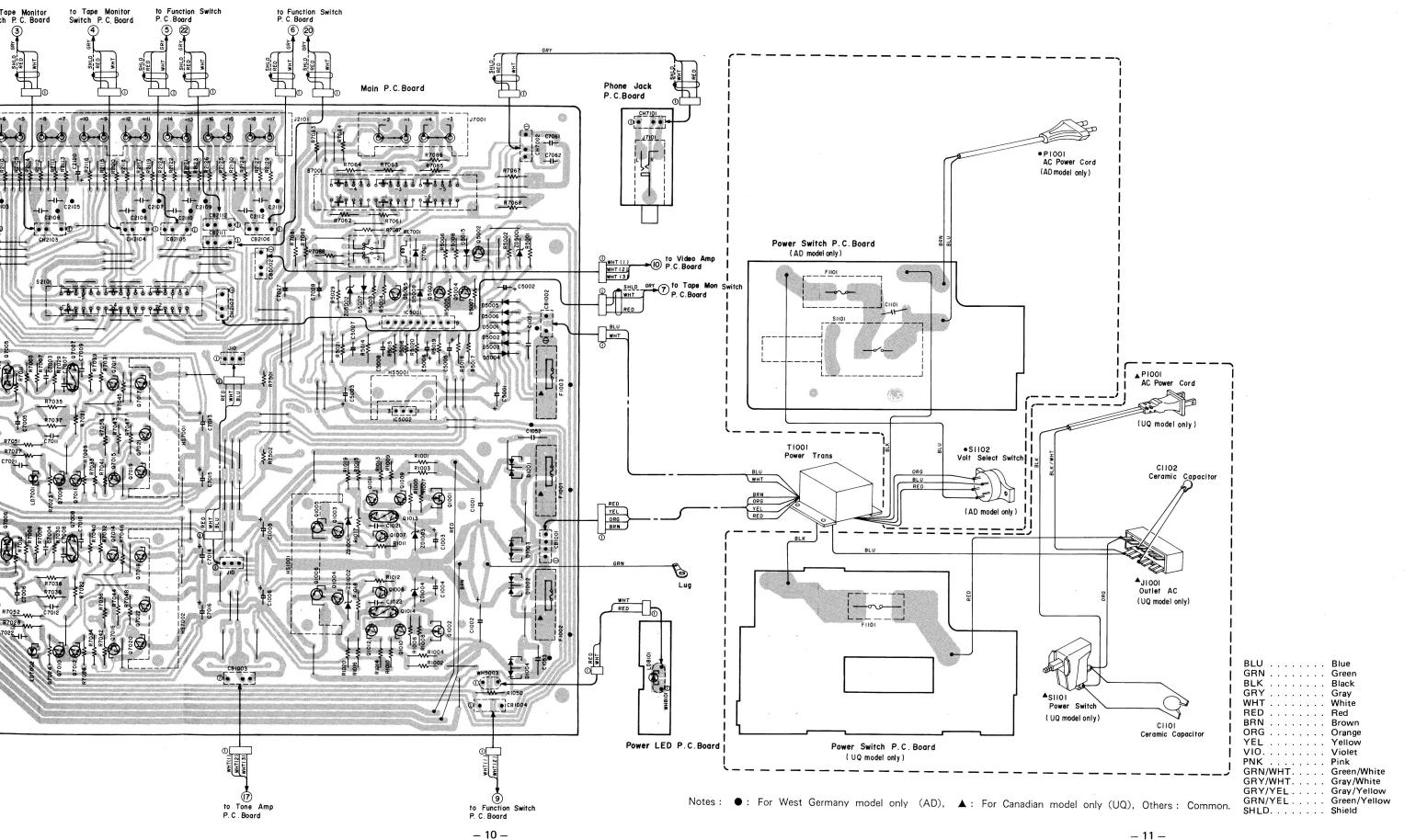




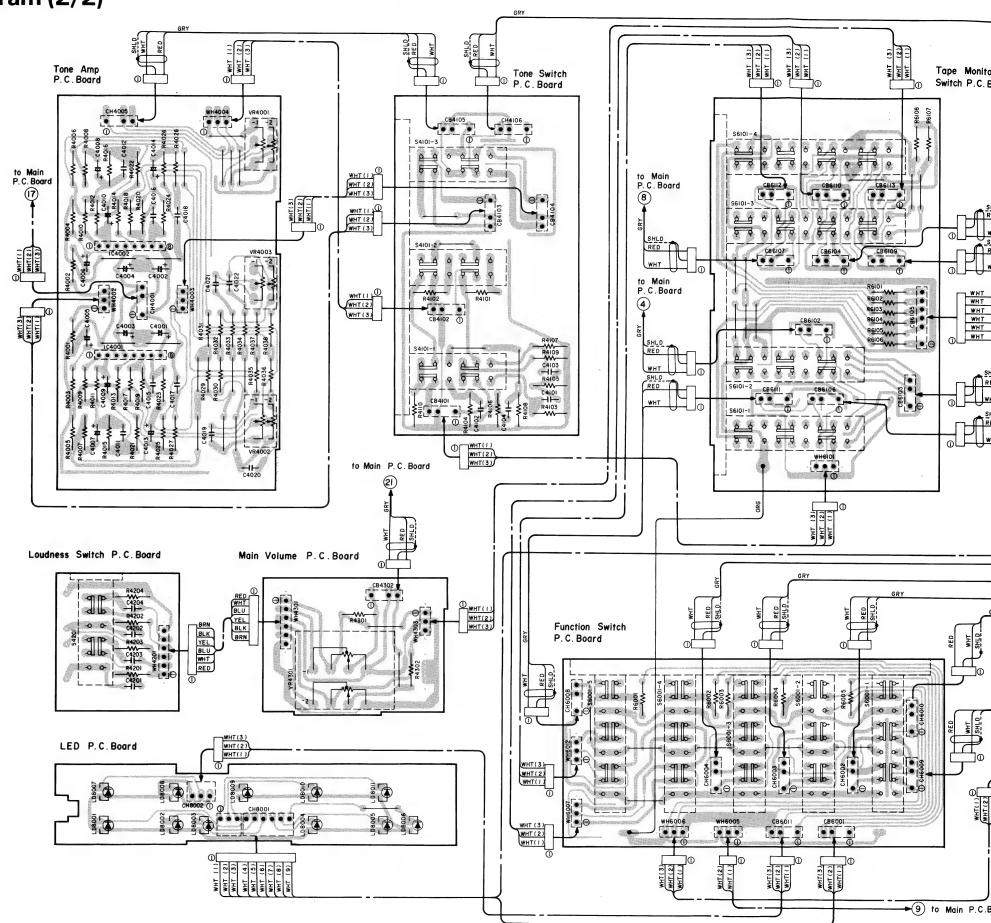
Parts Layout on P.C. Boards and Wiring Diagram (1/2)



gram (1/2)

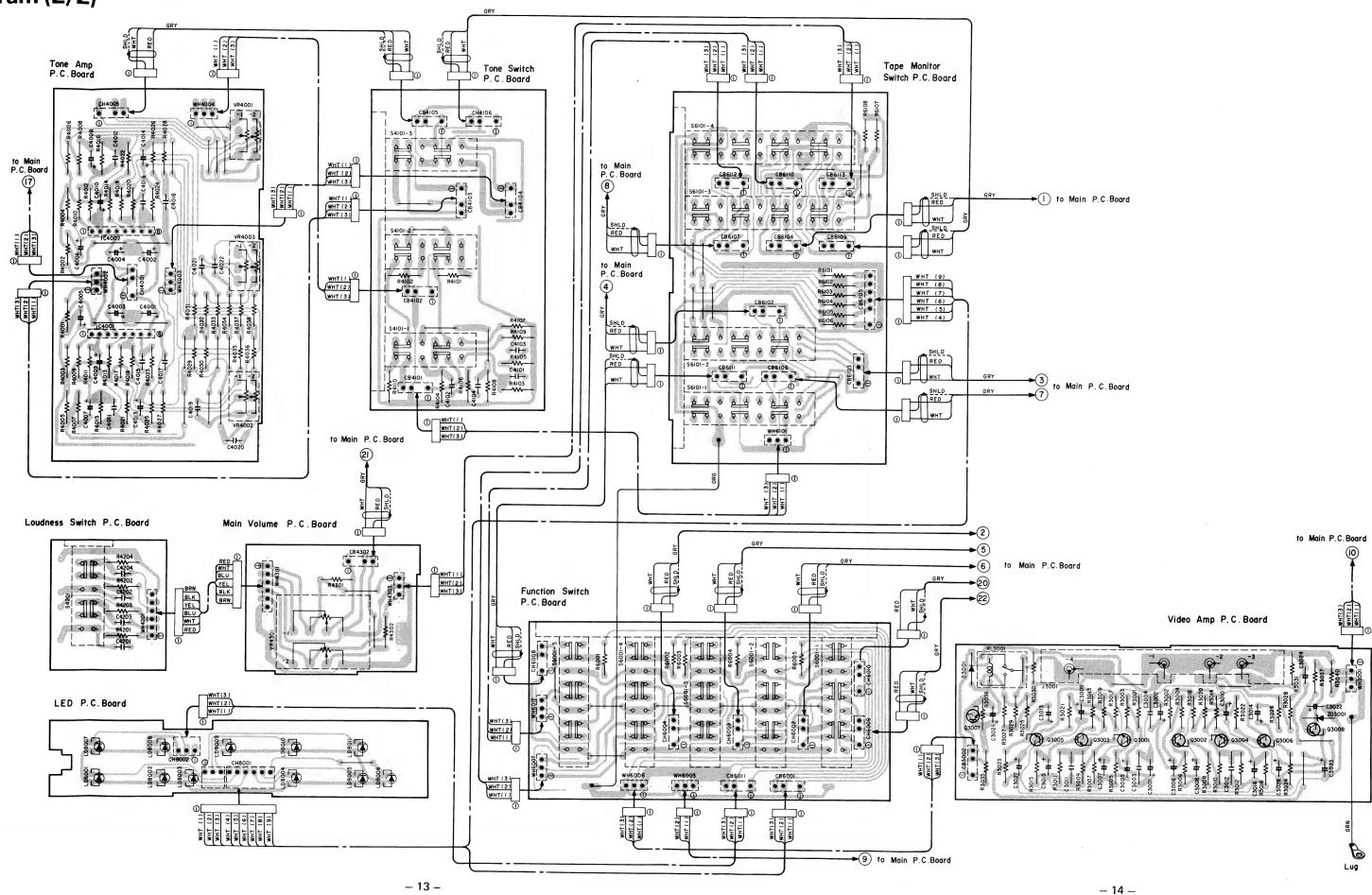


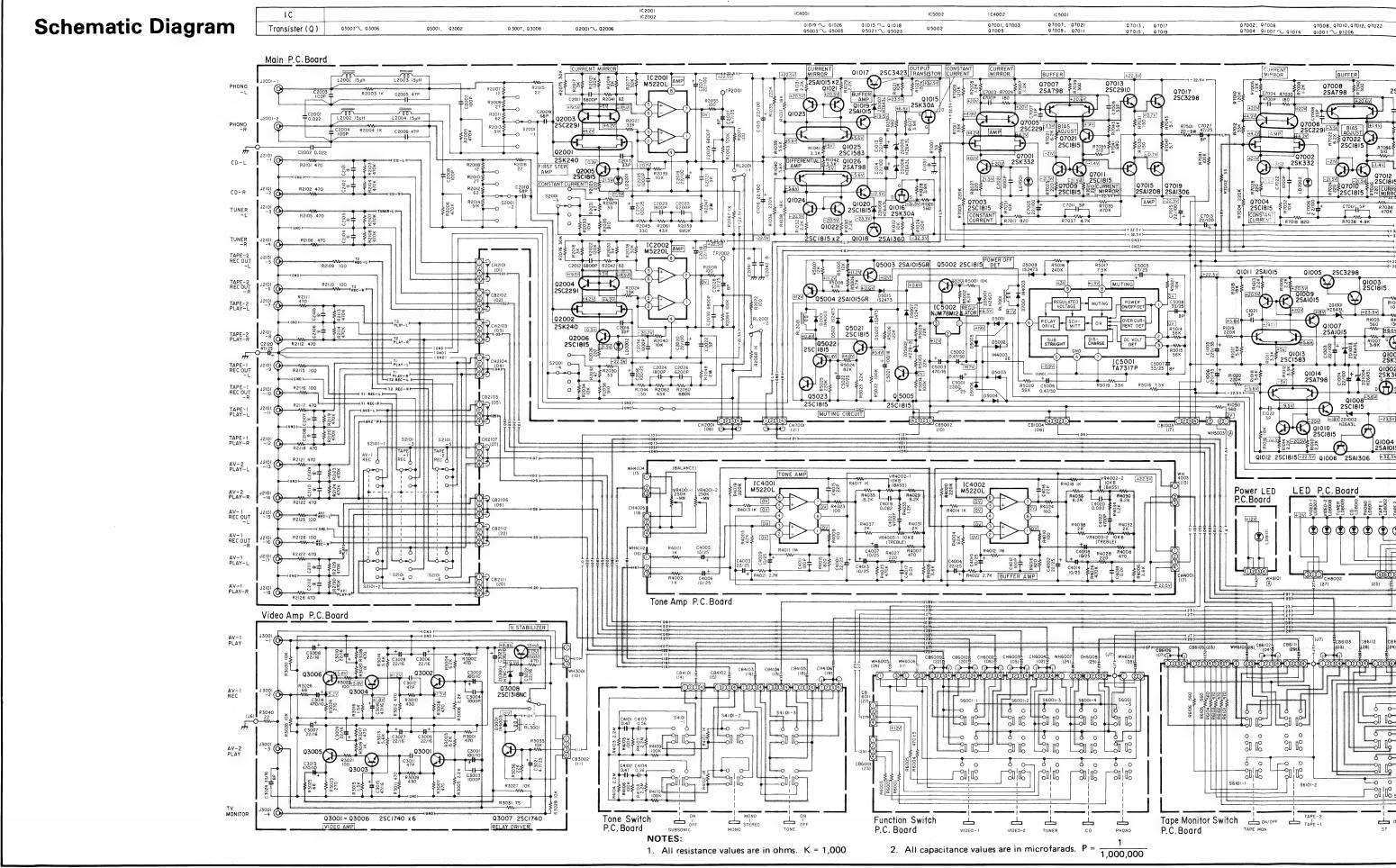
Parts Layout on P.C. Boards and Wiring Diagram (2/2)

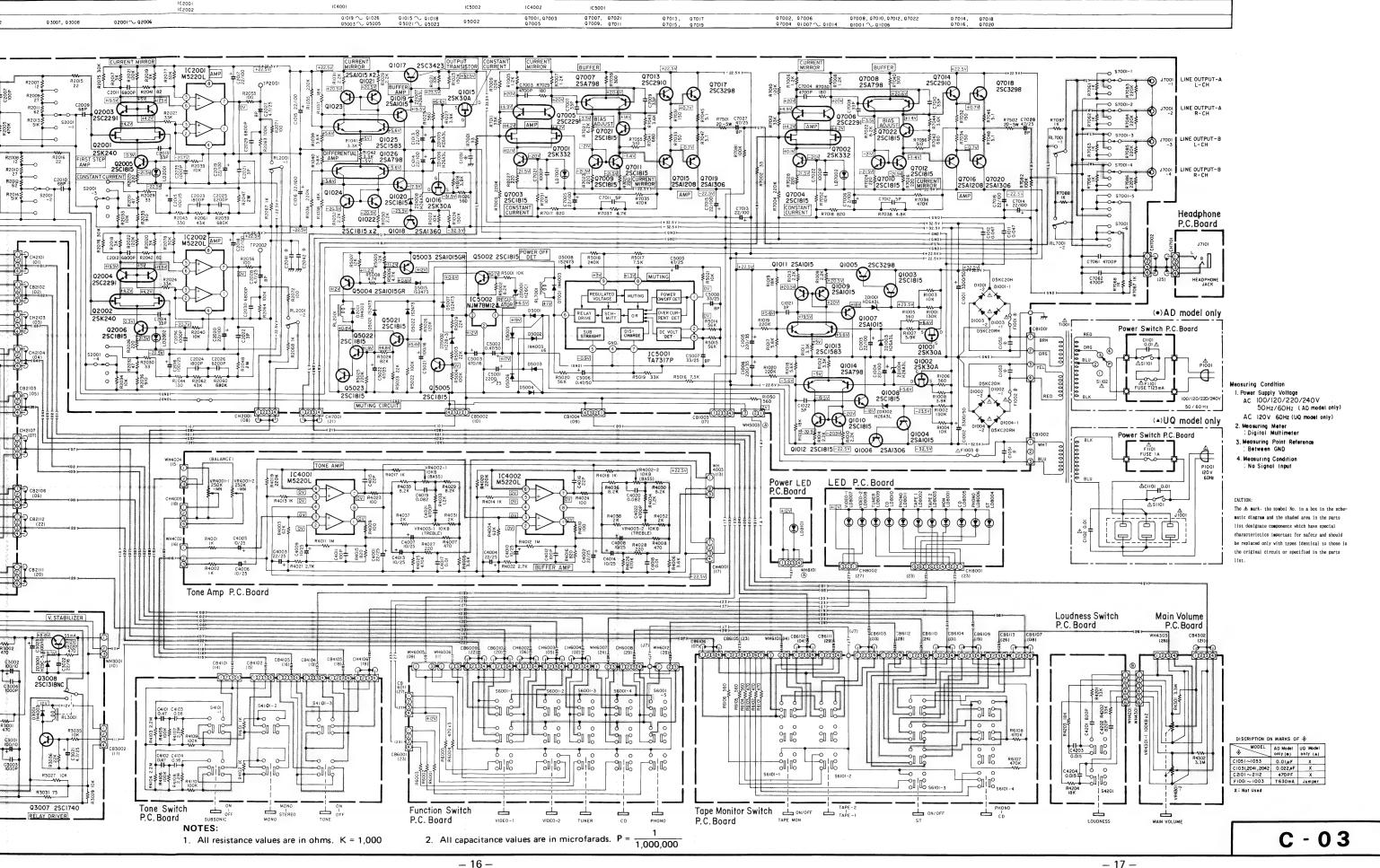


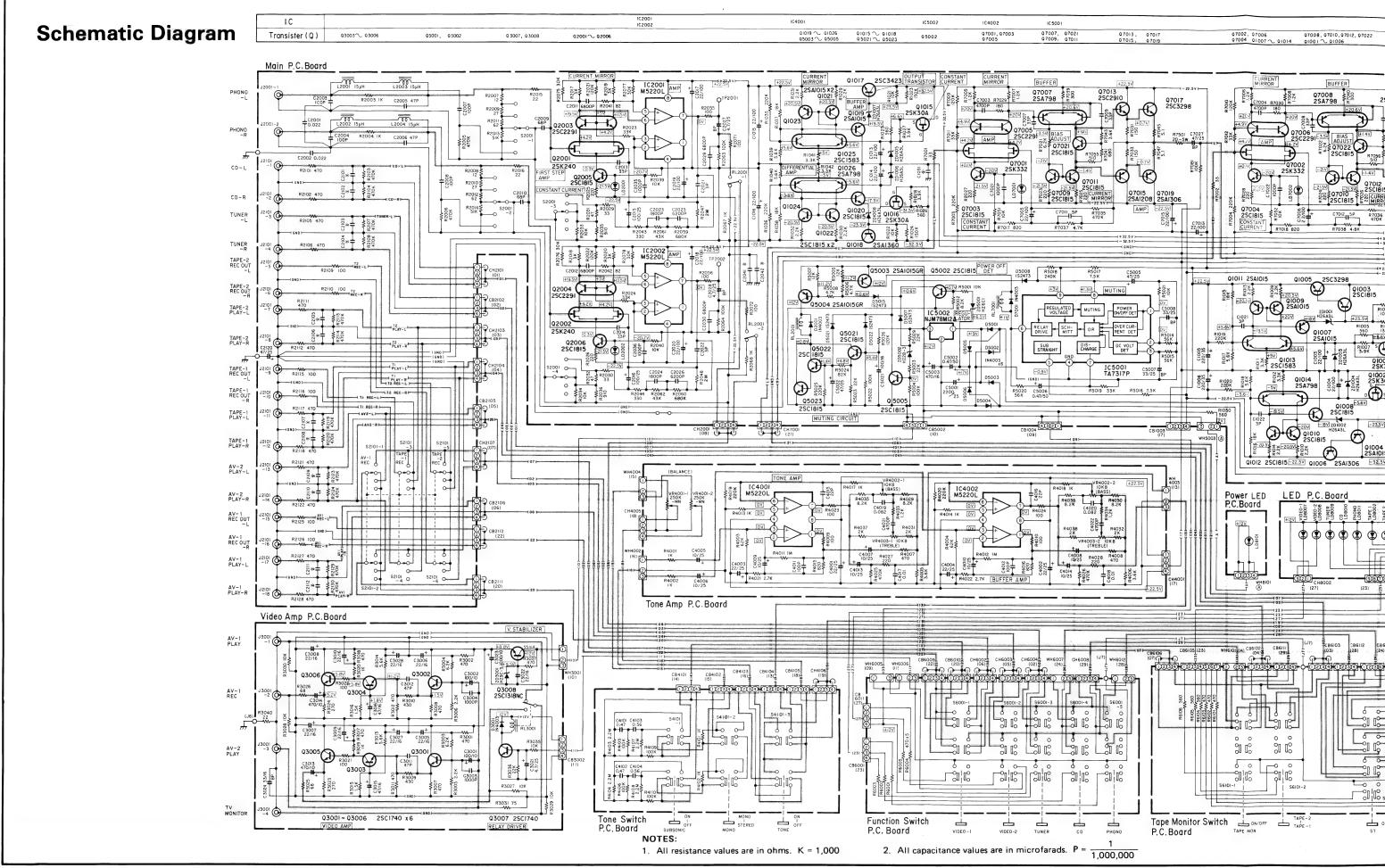
BLU Blue
GRN Green
BLK Black
GRY Gray
WHT White
RED Red
BRN Brown
ORG Orange
YEL Yellow
VIO Violet
PNK Pink
GRN/WHT Green/White
GRY/WHT Gray/White
GRY/YEL Gray/Yellow
GRN/YEL Green/Yellow
SHLD Shield

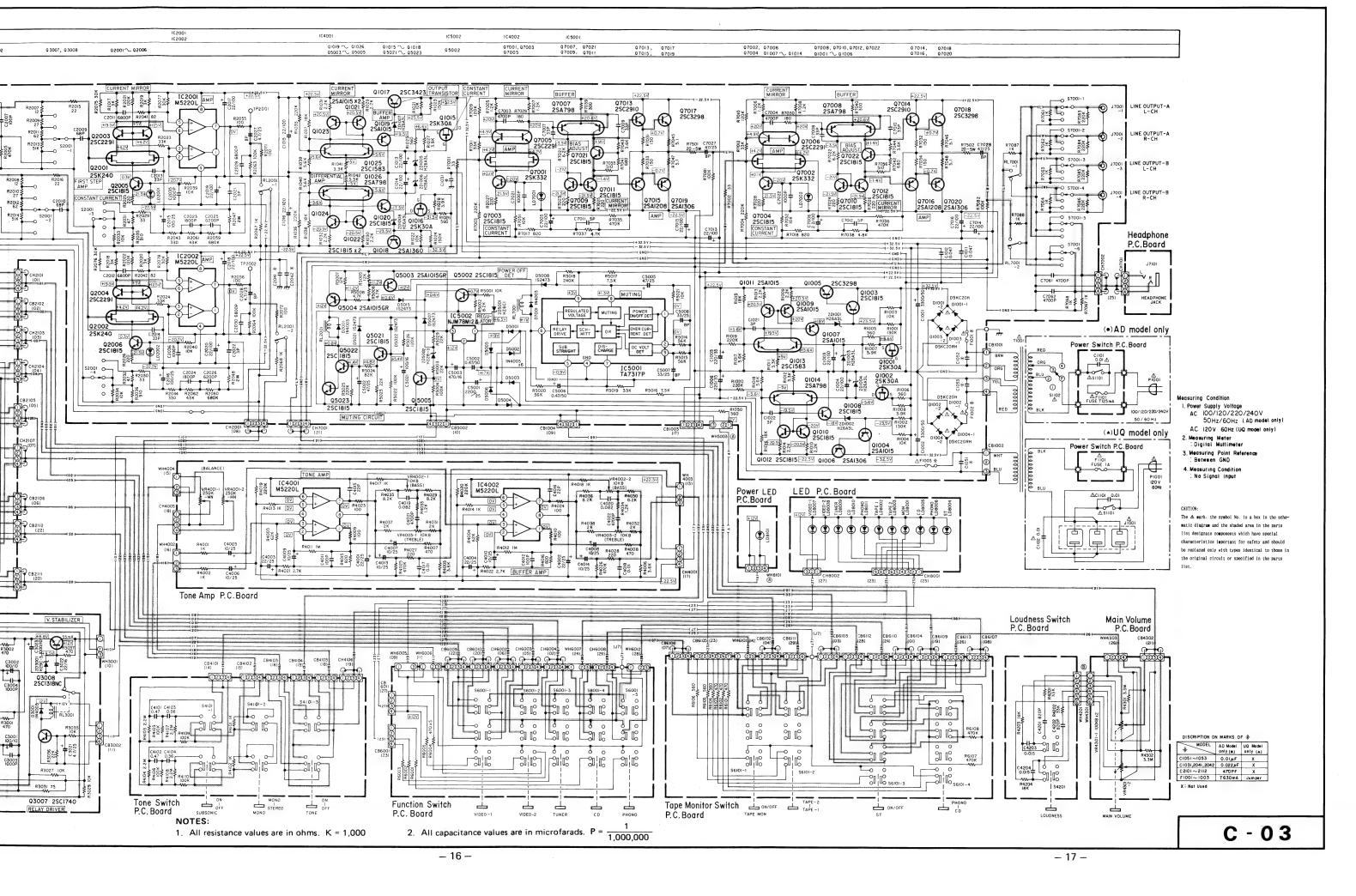
Diagram (2/2)











Electrical Parts List

Resistor: Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram. uF=microfarads, pF=picofarads

		1	C	T T		
-		breviations	Symbol No.	Part No.	Description	
	ES.≔Resistor	CAP.=Capacitor	Q1026	48T43816F02	2SA798	
C	C.F.=Carbon Fili	m ELY.=Electrolytic	Q2001	48T60558F01	FET, 2SK240	
M	l.F.=Metal Film	CER. = Ceramic	02002	48T60558F01	FET, 2SK240	
М	.O.=Metal Oxid	de Film MYL.=Mylar	02003	48T72598F01	2SC2291	
	.P.=Metal Plat	1	02004	48T72598F01	2SC2291	
	r. = Transistor	POLY.=Polystyrol				
			02005	48T81101F01	2SC1815	
	NS.=Transforme		02006	48T81101F01	2SC1815	
(CP.=Chip	PLT.=Polyethylene	05002	48T81101F01	2801815	
			Q5003	48T51118F02	2SA1015	
Symbol No.	Part No.	Description	Q5004	48T51118F02	2SA1015	
	NA-:-	P. C. Board	Q5005	48T81101F01	2SC1815	
	Mair	P. C. Board	Q5021	48T81101F01	2SC1815	
lC's			Q5022	48T81101F01	2SC1815	
10.5	,		Q5023	48T81101F01	2SC1815	
IC2001	1	M5220L	Q7001	48T72887F01	FET, 2SK332	
IC2002	51T72167F01	M5220L				
IC5001		TA7317P	Q7002	48T72887F01	FET, 2SK332	
IC5002	51T72375F01	NJM78M12A	Q7003	48T81101F01	2SC1815	
			Q7004	48T81101F01		
			07005	48T72598F01	2SC2291	
			Q7006	48T72598F01	2SC2291	
			Q7007	48T43816F02	2SA798	
			07008	48T43816F02	2SA798	
			07009	48T81101F01	2SC1815	
Tran	sistors		Q7010	48T81101F01	2SC1815	
Q1001	48T52152F01	FET, 2SK30A	Q7011	48T81101F01	2SC1815	
Q1001	48T52152F01	FET, 2SK30A				
Q1002	48T81101F01	2SC1815	07012	48T81101F01	2SC1815	
Q1004	48T81102F01	2SA1015	07013	48T72889F01	2SC2910	
Q1005	48T60555F01	2SC3298	07014	48T72889F01	2SC2910	
4,000	40100000101		Q7015	48T72888F01	2SA1208	
Q1006	48T60556F01	2SA1306	Q7016	48T72888F01	2SA1208	1
Q1007	48T81102F01	2SA1015				
Q1008	48T81101F01	2SC1815	Q701 7	48T60555F01	2SC3298	1
Q1009	48T81102F01	2SA1015	Q7018	48T60555F01	2SC3298	
Q1010	48T81101F01	28C1815	Q7019	48T60556F01	2SA1306	
			Q7020	48T60556F01	2SA1306	
Q1011	48T81102F01	2SA1015	07021	48S43525F03	2SC1815	
01012		2SC1815				
01013	48T44982P01	2SC1583G	Q7022	48S43525F03	2SC1815	
01014	48T43816F02					
Q1015	48T52152F01	FET, 2SK30A				
01010	40752152501	LET 38K30A				
01016	48T52152F01	FET, 2SK30A				1
01017	48T64376F01	2803423				
01018	48T64375F01	2SA1360		1		
01019	48T81102F01	2SA1015	Diode	es/LED's		
Q1020	48T81101F01	2SC1815	D1001	48T80317F01	Twin D5KC20H	T
Q1021	48T81102F01	2SA1015	D1002		Twin D5KC20H	
01021	48T81101F01	25C1815	D1003	48T80317F02	1	
01022	48T81102F01	2\$A1015	D1004		Twin D5KC20RH	
01023	48T81101F01	25C1815	D2001	48\$40477U01		
Q1024	48T44982P01	2SC1583G				
41025	401 44302 [0]					

Symbol				Symbol			
No.	Part No.	Description		No.	Part No.	Description	
D5001 D5002	48S40477U01 48S40477U01			Switc	hes		.
D5002	48S40477U01			S2001	40T90662E02	Rotary SLD SSSR	
D5004	48S40477U01			02001	1-0100002102	(CARTRIDGE	
D5005	48S40477U01		1 11			SELECTOR)	
				S2101	40T90663F01	Rotary SLD SSSR	
D5006	48S40477U01	IN4003				(REC OUT	
D5007	48T68764F03	1S2473	- 1			SELECTOR)	
or	48T43189F01	1		S7001	40T90663F01	Rotary SLD SSSR	
D5008		182473				(OUTPUT SELECTOR)	
or	48T43189F01	181555					
D5015	48T68764F03	182473					
or		181555					
D5021	48T68764F03	1S2473					
or		1S1555		Jacks			
D5022	48T68764F03			10001	09T90669F01	Phono, Plate (AU)	T
or	48T43189F01	181555		J2001	09190669F01	(2P)	
D7001	48S40477U01			J2101	09T90670F01	Phono, Plate (AU)	
L.D2001		LED, BR5507S (RED)		177.0.1		(18P)	
LD2002		LED, BR5507S (RED)		J7001	09T90672F02	Phono, Plate (AU)	
LD7001		LED, BR5507S (RED)				(4P)	
LD7002	46152955705	LED, BR5507S (RED)					
ZD1001	48T52741F03	Zener, HZ6A-3L					
ZD1002		Zener, HZ6A-3L					
ZD1003	48T52741F03	Zener, HZ6A-3L					
ZD1004	48T52741F03	Zener, HZ6A-3L					
ZD1005	48T52741F03	Zener, HZ6A-3L		Capac	itore	I	ll
ZD1006	10152711503	Zener, HZ6A-3L	-			ELY., 3300 µ F/50V	II
ZD1007	1	Zener, HZ6A-3L		1	1	ELY., 3300 µ F/50V	
ZD1008		Zener, HZ6A-3L			23T00154L53		
ZD5001	48T52739F40	Zener, HZ6C-1		C1004	23T00154L53	ELY., 22 µ F/100V	
ZD5002	48T52739F03	Zener, HZ2B-3		C1005	23T00154L27	ELY., 220 µ F/35V	
				01006	23T00154L27	ELY., 220 µ F/35V	
			1 11		08T57705F25		
Ų.			- 1 11			MYL., 0.047 μ F	
					23T00154L53	1	
		L			23T00154L53		
Coils							
L2001		Choke, 15 µ H			23T00154L53	1	
L2002		Choke, 15 µ H			23T00154L53		
L2003 L2004		Choke, 15 µ H Choke, 15 µ H			08T81196F03 08T81196F03		
_2004		5.75KU, 10 H 11		1	08T52714F17		
			•		21T68834F01		
			•	1	21T68834F01		
					21T68834F01		
Relay	'S			1	08T52714F17 08T52714F17		
RL2001	80T00048L02	RZ-12W-0H		32302	20,06117111		1
RL7001	80T00048L02			C2003	08T61642F27	MIC., 100pF	
				C2004	08T61642F27	MIC., 100pF	
					08T81196F25	· 1	
						MIC., 47pF	
				C2007	08T81196F34	MiC., 100pF	

Notes: ●: For West Germany model only (AD), ▲: For Canadian model only (UQ), Others: Common...

C2014	1
C2009 63781196F30 MIC. 68pF C2010 68781196F30 MIC. 68pF C2011 68700151L23 PP. 6800pF C2011 68700151L23 PP. 6800pF C2013 68781196F19 MIC. 33pF C2014 68781196F19 MIC. 33pF C2016 23700132L12 ELY. 100 u F./25V C2018 23700154L53 ELY. 22 u F./100V C2020 23700154L53 ELY. 22 u F./100V C2021 23700154L53 ELY. 22 u F./100V C2022 23700154L53	
C2010 G8T81196F30 C2011 G8T00151L23 C2012 G8T00151L23 C2012 G8T00151L23 C2012 G8T00151L23 C2013 G8T81196F19 G2014 G8T81196F19 G7006 G8T81196F19	/25V
C2011 08T00151L23 PP., 6800pF C2012 08T00151L23 PP., 6800pF C2013 08T81196F19 MIC., 33pF C2014 08T81196F19 MIC., 33pF C2016 23T00132L12 ELY., 100 \(\times \) F/25V C2016 23T00132L12 ELY., 100 \(\times \) F/25V C2016 23T00132L12 ELY., 100 \(\times \) F/25V C2017 23T00154L53 ELY., 22 \(\times \) F/100V C2019 23T00154L53 ELY., 22 \(\times \) F/100V C2020 23T00154L53 ELY., 22 \(\times \) F/100V C7009 08T81196F19 MIC., 08T81196F19 MIC., 07010 08T81196F	201
C2012 08T00151L23 PP. 6800pF C2013 08T81196F19 MIC. 33pF C2014 08T81196F19 MIC. 33pF C2015 23T00132L12 ELY. 100 μ F./25V C2016 23T00132L12 ELY. 100 μ F./25V C2016 23T00132L12 ELY. 100 μ F./25V C2017 23T00154L53 ELY. 22 μ F./100V C2021 03T30154L53 ELY. 22 μ F./100V C2021 03T30154L53 ELY. 22 μ F./100V C2021 03T30154L53 ELY. 22 μ F./100V C2021 03T31196F03 MIC. 3pF C7000 08T81196F19 MIC. C7000 08T81196F19 MIC	/251/
C2013 08T81196F19 MIC. 33pF C2014 08T81196F19 MIC. 33pF C2015 23T00132L12 ELY. 100 μ F / 25V C2016 23T00132L12 ELY. 100 μ F / 25V C7005 23T00132L52 ELY. 22 μ F / 100V C7005 23T00132L52 ELY. 22 μ F / 100V C7005 23T00132L52 ELY. 22 μ F / 100V C7006 08T81196F19 MIC. C7001 08T81196F19 MI	
C2013 08T81196F19 MIC. 33pF C2014 08T81196F19 MIC. 33pF C2015 23T00132L12 ELY. 100 μ F /25V C2016 23T00132L12 ELY. 100 μ F /25V C2017 23T00154L53 ELY. 22 μ F /100V C2020 23T00154L53 ELY. 22 μ F /100V C7000 08T81196F19 MIC. C7000 08T81196F19 MIC. C7000 08T81196F19 MIC. C7010 08T81196F19 MI	
C2014 08T81196F19 MIC. 33pF C2015 23T00132L12 ELY. 100 μ F/25V C2016 23T00132L12 ELY. 100 μ F/25V C2016 23T00132L12 ELY. 100 μ F/25V C2017 23T00154L53 ELY. 22 μ F/100V C2020 23T00154L53 ELY. 22 μ F/100V C2020 23T00154L53 ELY. 22 μ F/100V C2020 23T00154L53 ELY. 22 μ F/100V C2021 08T81196F03 MIC. 3pF C2020 08T81196F03 MIC. 3pF C2024 08T00151L16 PP. 1800pF C2026 08T00151L72 PP. 6200pF C2026 08T00151L72 PP. 6200pF C2026 08T00151L72 PP. 6200pF C2027 23T71210F12 ELY. (B.P.) 4.7 μ F/25V C2029 08T00151L23 PP. 6800pF C2020 08T57705F05 MYL. 1000pF C2020 08T57705F05 MYL. 1000pF C2020 08T57705F05 MYL. 1000pF C2020 08T57705F05 MYL. 1000pF C2020 08T57705F05 CER. 470pF C2100 08S40805F05 CER. 470pF C2110 08S40805F05 CER.	
C2015 23T00132L12 ELY., 100 μ F / 25V C2016 23T00132L12 ELY., 100 μ F / 25V C2017 23T00154L53 ELY., 22 μ F / 100V C2019 23T00154L53 ELY., 22 μ F / 100V C2019 23T00154L53 ELY., 22 μ F / 100V C2010 08T81196F03 MIC., 3ρF C2021 08T81196F03 MIC., 3ρF C2022 08T00151L16 PP., 1800ρF C2024 08T00151L72 PP., 6200ρF C2026 08T00151L72 PP., 6200ρF C2026 08T00151L72 PP., 6200ρF C2026 08T00151L72 ELY., (B.P.) 4.7 μ F / 25V C2029 08T00151L23 PP., 6800ρF C2025 08T57705F05 MYL., 1000ρF C2026 08T57705F05 MYL., 1000ρF C2026 08T57705F05 MYL., 1000ρF C2026 08T57705F05 C2026 08T5770	1700p
C2016 23T00132L12 ELY., 100 μ F / 25V C2017 23T00154L53 ELY., 22 μ F / 100V C2021 23T00154L53 ELY., 22 μ F / 100V C2020 23T00154L53 ELY., 22 μ F / 100V C2020 23T00154L53 ELY., 22 μ F / 100V C2021 08T81196F03 MIC., 3ρF C2024 08T81196F03 MIC., 3ρF C2024 08T00151L16 PP., 1800ρF C2025 08T00151L16 PP., 1800ρF C2026 08T00151L72 PP., 6200ρF C2027 23T71210F12 ELY., (B.P.) 4.7 μ F / 25V C2029 08T00151L23 PP., 6800ρF C2020 08T00151L23 PP., 6800ρF C2020 08T00151L23 PP., 6800ρF C2020 08T00151L23 PP., 6800ρF C2020 08T57705F05 MYL., 1000ρF C2020 08T57705F05 MYL., 1000ρF C2020 08T57705F05 MYL., 1000ρF C2020 08T57705F05 MYL., 1000ρF C2020 08T57705F05 C2020 08T57705F05 C2020 C2020 08S40805F05 C2R., 470ρF C2020 08S40805F05 C2R., 470ρ	
C2017 23T00154L53	700pF
C2018 23T00154L53	100V
C2018 23T00154L53 ELY. 22	100V
C2019 23T00154L53 ELY., 22 µ F / 100V C2020 23T00154L53 ELY., 22 µ F / 100V C2021 08T81196F03 MIC., 3pF C2022 08T81196F03 MIC., 3pF C7011 08T81196F04 MIC., C7012 08T6151453 ELY., 22 µ F/ C7018 23T00154L53 E	33pF
C2019 23T00154L53 ELY., 22 µ F / 100V C2020 23T00154L53 ELY., 22 µ F / 100V C2021 08T81196F03 MIC., 3pF C7011 08T81196F04 MIC., C7012 08T81196F04 MIC., C7012 08T81196F04 MIC., C7012 08T81196F04 MIC., C7013 23T00154L53 ELY., 22 µ F / 100V C2024 08T00151L16 PP., 1800pF C2025 08T00151L72 PP., 6200pF C2026 08T00151L72 PP., 6200pF C2027 23T71210F12 ELY., (B.P.) 4.7 µ F / 25V C2028 23T71210F12 ELY., (B.P.) 4.7 µ F / 25V C2029 08T00151L23 PP., 6800pF C2030 08T00151L23 PP., 6800pF C2030 08T57705F05 MYL., 1000pF C2036 08T52714F17 CER., 0.022 µ F C2042 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C210	33pF
C2020 23T00154L53 ELY., 22 µ F / 100V C2021 08T81196F03 MIC. 3pF C2025 08T81196F03 MIC. 3pF C2025 08T81196F03 MIC. 3pF C2025 08T00151L16 PP., 1800pF C2025 08T00151L72 PP., 6200pF C2025 08T00151L23 PP., 6200pF C2025 08T00151L23 PP., 6800pF C2025 08T57705F05 MYL., 1000pF C2025 08T57705F05 MYL., 1000pF C2026 08T57705F05 MYL., 1000pF C2026 08T57705F05 MYL., 1000pF C2026 08T57705F05 MYL., 1000pF C2026 08T52714F17 CER., 0.022 µ F C2042 08T52714F17 CER., 0.022 µ F C2042 08540805F05 CER., 470pF C2107 08540805F05 CER., 470pF C2108 08540805F05 CER., 470pF C2109 08540805F05 CER., 470pF C2101 08540805F05 CER.,	
C2021 08T81196F03 MIC. 3pF C7010 08T81196F19 MIC. MIC. 3pF C7011 08T81196F04 MIC. C7012 08T81196F04 MIC. C7013 23T00154L53 ELY. 22 μ F/ C7015 23T00154L53 ELY. 22 μ F/ C7015 23T00154L53 ELY. 22 μ F/ C7015 23T00154L53 ELY. 22 μ F/ C7016 23T00154L53 ELY. 22 μ F/ C7016 23T00154L53 ELY. 22 μ F/ C7016 23T00154L53 ELY. 22 μ F/ C7027 23T71210F12 ELY. (B.P.) (33pF
C2022 08T81196F03 MIC. 3pF C2023 08T00151L16 PP., 1800pF C2025 08T00151L16 PP., 1800pF C2026 08T00151L172 PP., 6200pF C2027 23T71210F12 PP., 6200pF C2028 23T71210F12 ELY., (B.P.) C2028 23T71210F12 ELY., (B.P.) C2029 08T00151L23 PP., 6800pF C2030 08T00151L23 PP., 6800pF C2030 08T57705F05 MYL., 1000pF C2030 08T57705F05 MYL., 1000pF C2030 08T57705F05 MYL., 1000pF C2041 08T52714F17 CER., 0.022 μ F C2042 08T52714F17 CER., 0.022 μ F C2043 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	33pF
C2023 08T00151L16 PP., 1800pF C2025 08T00151L72 PP., 6200pF C2026 08T00151L72 PP., 6200pF C2026 08T00151L72 PP., 6200pF C2027 23T71210F12 ELY., (B.P.) C2028 23T71210F12 ELY., (B.P.) C2029 08T00151L23 PP., 6800pF C2030 08T00151L23 PP., 6800pF C2030 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2030 08T57705F05 CER., 470pF C2100 08S40805F05 CER., 470pF C2100 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2108 08S40805F05 CER.,	. 1
C2023	5pF
C2024 08T00151L16 PP., 1800pF C2025 08T00151L72 PP., 6200pF C2026 08T00151L72 PP., 6200pF C2027 23T71210F12 ELY., (B.P.) C2028 23T71210F12 ELY., (B.P.) C2029 08T00151L23 PP., 6800pF C2030 08T00151L23 PP., 6800pF C2030 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2037 08T57705F05 MYL., 1000pF C2040 08T52714F17 CER., 0.022 μ F C2041 08T52714F17 CER., 0.022 μ F C2101 08540805F05 CER., 470pF C2102 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF	5pF
C2025 08T00151L72 PP., 6200pF PP., 6200pF C2026 08T00151L72 PP., 6200pF PP., 6200pF C2027 23T71210F12 ELY., (B.P.) C2028 23T71210F12 ELY., (B.P.) C2029 08T00151L23 PP., 6800pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2042 08T52714F17 CER., 0.022 μ F C2042 08T52714F17 CER., 0.022 μ F C2010 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 4	1007
C2026 08T00151L72 PP., 6200pF C2027 23T71210F12 ELY (B.P.) C2028 23T71210F12 ELY (B.P.) C2029 08T00151L23 PP., 6800pF C2030 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2042 08T52714F17 CER., 0.022 μ F C2101 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER.,	
C2027 23T71210F12 ELY., (B.P.) 4.7 μ F/25V C2028 23T71210F12 ELY., (B.P.) 4.7 μ F/25V C2029 08T00151L23 PP., 6800pF C2030 08T00151L23 PP., 6800pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2037 08T57705F05 MYL., 1000pF C2041 08T52714F17 CER., 0.022 μ F C2042 08T52714F17 CER., 0.022 μ F C2101 08S40805F05 CER., 470pF C2102 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF	1 1
C2028 23T71210F12 ELY (B.P.)	1
C2028 23T71210F12 ELY., (B.P.) C2029 08T00151L23 PP., 6800pF C2030 08T00151L23 PP., 6800pF C2035 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2041 08T52714F17 CER., 0.022 μ F C2101 08S40805F05 CER., 470pF C2102 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	
C2028 23T71210F12 ELY., (B.P.) 4.7 μ F/25V C2029 08T00151L23 PP., 6800pF C2030 08T00151L23 PP., 6800pF C2035 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2041 08T52714F17 CER., 0.022 μ F C2042 08T52714F17 CER., 0.022 μ F C2101 08S40805F05 CER., 470pF C2102 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	000pF
C2029 08T00151L23 PP 6800pF C2030 08T00151L23 PP., 6800pF PP., 6800pF C2035 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T52714F17 CER., 0.022 μ F C2101 08540805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05	000pF
C2029 08T00151L23 PP 6800pF C2030 08T00151L23 PP., 6800pF PP., 6800pF C2035 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T52714F17 CER., 0.022 μ F C2101 08540805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05	
C2029	
C2030	/25V
C2035 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2036 08T57705F05 MYL., 1000pF C2041 08T52714F17 CER., 0.022 µ F C2042 08T52714F17 CER., 0.022 µ F C2101 08S40805F05 CER., 470pF C2102 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	
C2036 08T57705F05 MYL., 1000pF C2041 08T52714F17 CER., 0.022 µ F C2042 08T52714F17 CER., 0.022 µ F C2101 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF	/25V
C2041 08T52714F17 CER., 0.022 µ F C2101 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C	700pF
C2041 08T52714F17 CER., 0.022 μ F C2042 08T52714F17 CER., 0.022 μ F C2101 08S40805F05 CER., 470pF C2102 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	
C2042 08T52714F17 CER., 0.022 µ F C2101 08S40805F05 CER., 470pF C2102 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	700pF
C2101 08S40805F05 CER., 470pF C2102 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	
C2102 08S40805F05 CER., 470pF C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	
C2103 08S40805F05 CER., 470pF C2104 08S40805F05 CER., 470pF C2105 08S40805F05 CER., 470pF C2106 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	
● C2104 08\$40805F05 CER., 470pF ● C2105 08\$40805F05 CER., 470pF ● C2106 08\$40805F05 CER., 470pF ● C2107 08\$40805F05 CER., 470pF ● C2108 08\$40805F05 CER., 470pF ● C2109 08\$40805F05 CER., 470pF ● C2110 08\$40805F05 CER., 470pF ● C2111 08\$40805F05 CER., 470pF	
C2105 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111	
C2105 08S40805F05 CER., 470pF C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111	
C2106 08S40805F05 CER., 2470pF CCR., 470pF Resistors C2108 08S40805F05 CER., 470pF R7501 06T90737F01 M.O., 20 ohm C2109 08S40805F05 CER., 470pF CER., 470pF CC2110 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF CER., 470pF CER., 470pF CER., 470pF C2111 08S40805F05 CER., 470pF CER., 470pF CER., 470pF CER., 470pF	
C2107 08S40805F05 CER., 470pF C2108 08S40805F05 CER., 470pF C2109 08S40805F05 CER., 470pF C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	
● C2107 08S40805F05 CER., 470pF ● C2108 08S40805F05 CER., 470pF ● C2109 08S40805F05 CER., 470pF ● C2110 08S40805F05 CER., 470pF ● C2111 08S40805F05 CER., 470pF ● C2111 08S40805F05 CER., 470pF	
● C2108 08S40805F05 CER., 470pF R7501 06T90737F01 M.O., 20 ohm ● C2109 08S40805F05 CER., 470pF ● C2110 08S40805F05 CER., 470pF ● C2111 08S40805F05 CER., 470pF ● C2111 08S40805F05 CER., 470pF	
● C2109 08S40805F05 CER., 470pF ● C2110 08S40805F05 CER., 470pF ● C2111 08S40805F05 CER., 470pF	5W
● C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	5W
● C2110 08S40805F05 CER., 470pF C2111 08S40805F05 CER., 470pF	
● C2111 08S40805F05 CER., 470pF	
INT. UZITZ FUNDANJAUDUDEUD TUEN 4700FT II	
C2120 23T00138L30 ELY., 47 μ F/25V	
C5001 23T00136L47 ELY., 2200 μ F/25V	
C5002 23T00138L44 ELY., 0.47 μ F/50V	
C5003 23T00138L24 ELY., 470 μ F/16V	
C5005 23T00138L30 ELY., 47 μ F/25V	
C5006 23T00138L44 ELY., 0.47 µ F/50V	

Notes: ●: For West Germany model only (AD), ▲: For Canadian model only (UQ), Others: Common...

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description		
	Video A	Amp P. C. Board		Tone A	Amp P. C. Board		
Trans	sistors		1C's				
Q3001 Q3002 Q3003 Q3004 Q3005	48T81103F01 48T81103F01 48T81103F01 48T81103F01	2SC1740 2SC1740 2SC1740 2SC1740 2SC1740	IC4001 IC4002	51T72167F01 51T72167F01	M5220L M5220L		
Q3006 Q3007		2SC1740 2SC1740	Capac	ritors	1	L	
Q3008	48S40832F03	2SC1318NC	C4001 C4002 C4003	23T00154L17 23T00154L17 23T00154L17	ELY., 22 μ F/25V ELY., 22 μ F/25V		
Diode	es		C4004 C4005	23T00154L17 23T00138L27	ELY., 22 μ F/25V ELY., 10 μ F/25V		
D3001 ZD3001	48S40477U01 48T52739F60	IN4003 Zener, HZ9C-3	C4006 C4007 C4008 C4009		ELY., 10 µ F/25V ELY., 10 µ F/25V ELY., 10 µ F/25V ELY., 10 µ F/25V		
Relay	//Jack		C4010	23T00138L27	ELY., 10 μ F/25V		
		Relay, (G2E) 12V Phono, Plate (AU) 4PV	C4011 C4012 C4013 C4014 C4015		MIC., 100pF ELY., 10 μ F/25V ELY., 10 μ F/25V		
Capa	citors		C4016	08T81196F14	MIC., 22pF		
C3001 C3002 C3003 C3004 C3005	23T00138L12 23T00138L12 08T55260F49 08T55260F49 23T00138L18	CER., 100 µ F/10V CER., 1000pF CER., 1000pF	C4017 C4018 C4019 C4020	08T57851F01 08T57851F01 08T57851F12 08T57851F12	PF 0.01 µ F PF 0.01 µ F TF., 0.082 µ F TF., 0.082 µ F		
C3006 C3007 C3008 C3009 C3010	23T00138L18 23T00138L18 23T00138L18 23T00138L18 23T00138L18	ELY., 22 μ F/16V ELY., 22 μ F/16V ELY., 22 μ F/16V	C4021 C4022	08T57851F32 08T57851F32			
C3011	08T81196F25		Volum	nes	1	l	
C3012 C3013 C3014 C3015	08T81196F25 23T00138L15 23T00138L15 23T00138L20	ELY., 470 µ F/10V ELY., 470 µ F/10V	VR4001 VR4002	18T90658F01 18T90657F01	Rotary 250K ohm (BALANCE) Rotary 10K ohm B×2 (BASS)		
C3016 C3021 C3022 C3023 C3024	23T00138L26 23T00138L18	ELY., 47 μ F/16V ELY., 4.7 μ F/25V ELY., 22 μ F/16V ELY., 1000 μ F/10V ELY., (B.P.) 33 μ F/16V	VR4003	18T90657F01	Rotary 10K ohm B×2 (TREBLE)		
C3027 C3028		ELY., 22 μ F/16V ELY., 22 μ F/16V					

Symbol No.	Part No.	Description	S	ymbol No.	Part No.	Description	
	Tone Sv	vitch P. C. Board			LED	P. C. Board	
Switc	h			LED's			
S4101	40T90666F01	Push (SPUN) (SUBSONIC, MONO, TONE IN)	i i i	_D8001 _D8002 _D8003 _D8004 _D8005	48T70949F01 48T70949F01 48T68847F01 48T68847F01	SLR54DC3F (ORG) SLR54DC3F (ORG) SLR54DC3F (ORG) SLR-54MC3 (GRN) SLR-54MC3 (GRN)	
Capac	citors		11	_D8006 _D8007		SLR-54MC3 (GRN) SLR-54MC3 (GRN)	
	08T57851F21 08T57851F21	TF., 0.47 μ F TF., 0.56 μ F	l l	_D8008 _D8009 LD8010	48T68847F01 48T68847F01 48T68847F01	SLR-54MC3 (GRN) SLR-54MC3 (GRN) SLR-54MC3 (GRN) SLR-54MC3 (GRN)	
		Switch B. C. Board					
Qi+-	Loudness ch/Capacitors	Switch P. C. Board					
		Switch, Push (SPUN)	$ \parallel$ \parallel				
S4201 C4201	O8T57705F04	(LOUDNESS) MYL., 820pF			,	iscellaneous	
C4202 C4203 C4204		MYL., 820pF MYL., 0.015 μ F MYL., 0.015 μ F	A • • • • • • • • • • • • • • • • • • •	C1102 F1001	08T57437F11 65T42077U14 65T42077U14	CAP., CER., 0.01 µ F CAP., CER., 0.01 µ F Fuse, Semko T630mA Fuse, Semko T630mA Fuse, Semko T630mA	
	Main Vo	olume P. C. Board	•	F1101	65T42077U10	Fuse, Semko T250mA	
Volur	me		<u> </u>	F1101	65T52486F03 09T67405F02	Fuse, MF 61NM 1A	
VR4301	18T91013F01	Rotary 100K ohm B×2 (VOLUME CONTROL)		J7101	09T66672F01	PHONES Jack (phones)	
				LD8101	48T70949F01	(ORG)	
	Function	Switch P. C. Board	•	P1001	28T66838F01	AC Power Cord AC Power Cord	
Swite				S1101 S1101		Switch, Power SDDLE Switch, Power	
S6001	40T90665F01	Push (SPUN) (VIDEO-1, -2, TUNER, CD, PHONO)	•			SDDZB1 Switch, Voltage Select	}
			•	T1001	25T92778F01 25T92779F01	Trans, Power Trans, Power	
	Tape Monit	or Switch P. C. Board					
Swite	ch						
S6101	40T90668F01	Push (SPUF) (TAPE MONITOR, TAPE/DAT, STRAIGHT IN, STRAIGHT SELECTOR)					

Notes: ●: For West Germany model only (AD), ▲: For Canadian model only (UQ), Others: Common.

Cabinet Assembly Parts List

NOTE: The parts without part numbers are not su	upplied	not supr	not	are	numbers	part	without	parts	The	NOIE:
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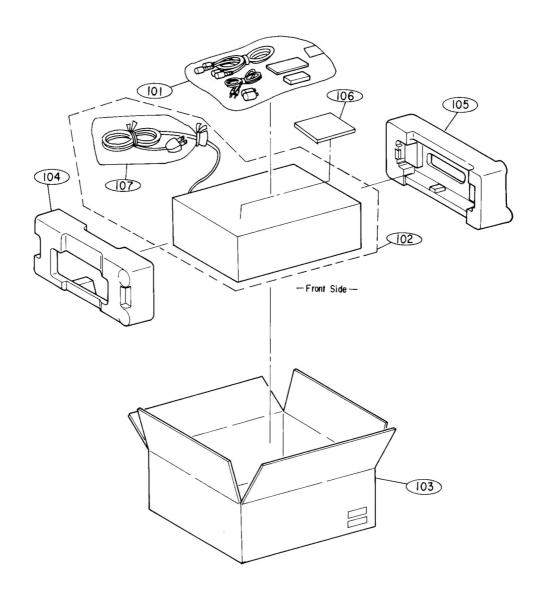
_		-			1/1	OTE:	7	parts without	part numbers are	not si	ipplied.
	rmbol No.	Index	Part No.	Description	11'	mbol No.	Index	Part No.	Description		
	1	5-A	01V91300F98	Assy., Front P.C.		45	4-B	36A61760F01	Knob, Rotary		
ı				Board	Ш				(VR1163)		
	2	2-G	15C83872F03	Cover, Top	Ш	46	3-A	36A61435F01	Knob, Volume		
	4	4-F	15C90578F01	Cover, Rear	11				(1164)		
	4	4-F	15C90578F02	Cover, Rear	Ш	47	4-C	36B90588F01	Knob, Rotary		
	5		03\$71031F04	Screw, Bind	Ш				Volume		
1				(M3 × 8)	Ш	48	3-A	36A57910F03	Knob, Rotary		
					Ш	50		03S71031F01	Screw, Bind		
1	6		03S82672F20	Screw, Bind	Ш				(M3 × 8)		
				(M3 × 8)	Ш						
1	7	5-D	75T57059F01	Pad, Tranleg	Ш	51	3-D	40T90660F01	Switch, Rotary		
1	8	6-D	03S63857F10	Screw, Tapping		52	3-D	40T90659F01	Switch, Rotary		
1	1			(M4 × 12)	11	53	2-A	40T90661F01	Switch, Rotary	l	
	10		03S44205G4Q	Screw, Bind	11						
		-		(M3 × 4)	11						
	13		05B41635J02	Rivet Push							
•	14	2-D	14S53017F64								
A	14		54A63397F01	Label, Fuse Caution				1			
1	15		03S44205G69	Screw, Bind	11						
				(M4 × 6)							
	16	4-F	75S92415F11	Cushion, Rubber							
•	17	1-B	47A90587F01	Shaft, Power							
	17	1-B	47A92022F01	Shaft, Power	$\ \ $						
	18	1-C	43A83885F01	Spacer, Rubber	Ш						
	21		03D40014G04	Screw, W/Washer	11						
1				(M3 × 6)	Ш						
	28		43T53136F01	Bush, Cap	11	.					
	29	4-H	43B41625J02	Support, Cord							
	30	4-H	29T66964F02	Terminal, GND							
ı				(AU)	Ш						
	31	5-H	14A93742F01	Double, Face Jack						ĺ	
	35		09T51410F01	Holder, Fuse	Ш						
				(Semko)	Ш						
A	35	4-D	09T51960F01	Holder, Fuse	Ш						
				(Semko)							
	36		29C41045P06	Lug, Board-In							
ı				50mm							
1					11						
	37		29A41814G01								
	41	4-A	03S44205G50	Screw, Countersink	Ш]
1				(M3 × 6)							
1	42	3-A	36B70885F08	Knob, Push							
				(Power)	Ш						
1	43		36A67333F02		Ш						
				(3 × 10)	Ш						
1	44	4-A	36R61696F01	Knob, Main	\prod						
				(1163 Metal)	Ш						
1					11						
1											
1					11						
		A									
	L	<u> </u>	l		┚┖						

Notes: ●: For West Germany model only (AD), ▲: For Canadian model only (UQ), Others: Common,

Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	
101-1	68P83710F05	Owners Manual	105	56D90649F01	Tray, Packing	
101-2	28T67347F01	Plug, Audio Cable	106	56A93246F01	Pad, Packing	
		(AU)	107	56B40230G08	Sack, Polyethylene	
102	56B40230G23	Sack, Polyethylene				
103	56S83833F14	Carton, Packing				
104	56D90648F01	Tray, Packing				

Packing Method View



Semi-Conductor Lead Identifications

M5220L: IC2001, 2002, 4001, 4002 Z TA7317P: IC5001 Sub-Straight DC Voltage Detect Circu NJM78M12A: IC5002 3) ОПТРИТ INPUT (COMMON

2SK30A: Q1001, 1002, 1015, 1016



2SC1815 : Q1003, 1008, 1010, 1012, 1020, 1022, 1024, 2005, 2006, 5002, 5005

: Q5021, 5022, 5023, 7003, 7004, 7009, 7010, 7011, 7012, 7021, 7022

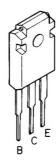
2SA1015 : Q1004, 1007, 1009, 1011, 1019, 1021, 1023, 5003, 5004

2SC1740 : Q3001, 3002, 3003, 3004, 3005, 3006, 3007

2SC1318NC: Q3008



2SC3298: Q1005, 7017, 7018

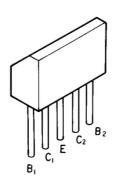


2SA1306: Q1006, 7019, 7020



2SA798 : Q1014, 1026, 7007, 7008

2SC1583: Q1013, 1025



2SC3423: Q1017 2SA1360: Q1018



2SK240: Q2001, 2002



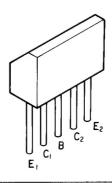
II DRAIN I

2: GATE I

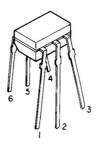
3: SOURSE I

4: DRAIN 2

5: GATE 2 6: SOURSE 2 2SC2291: Q2003, 2004, 7005, 7006



2SK332: Q7001, 7002



1: DRAIN 1

2: GATE 1

3: SOURSE 1

4 : SOURSE 2 5 : GATE 2 6 : DRAIN 2

2SA1208: Q7015, 7016 2SC2910 : Q7013, 7014

